

## Operator Preventive Maintenance Checks and Services

### 6630-01-300-8711 Analyzer, Sodium Potassium, Model 614

[B-Before Operation, D-During Operation, A-After Operation, Q-Quarterly, and S-Semiannually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	B	<b>Analyzer, Sodium Potassium</b> a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand.  b. Inspect the unit for dust, dirt, or damage. Refer to the operation description of controls, circuit breaker, connector, and indicators in the manufacturer's literature and ensure all are operational.  c. Verify that the Medical Equipment Verification/Certification label (DD Form 2163) has a current date.	Missing or expired components or accessories prevent operation of the analyzer.  Damage or deteriorated components prevent the operation of the unit.  The unit has not been verified within the last six (6) months.
2	B	<b>Installation</b> a. Position the analyzer on a level bench—away from direct sunlight and drafts. The operating temperature range is between 10° C and 35° C (50° F and 95° F). The analyzer needs approximately 450 x 450 mm (18 x 18 in) of bench space.  b. Conduct the following steps as directed in the manufacturer's service manual: <ul style="list-style-type: none"> <li>(1) Install the Na+ and K+ electrodes.</li> <li>(2) Install the reference electrode.</li> <li>(3) Perform the "Tensioning the Pump Tube Cassette" procedure.</li> <li>(4) Install the reagents.</li> <li>(5) Perform the "Fitting the Printer Ribbon Cassette" procedure.</li> <li>(6) Perform the "Selecting Voltage" procedure.</li> <li>(7) Position the "Operator's Guide" to the right of the analyzer.</li> </ul>	The unit cannot be positioned to meet the required parameters.  The electrodes are expired or cannot be installed in unit.  The electrodes are expired or cannot be installed in unit.  The pump tube cassette is loose or damaged.  The reagents are expired or cannot be installed in unit.  The ribbon cassette will not install.  The proper voltage cannot be selected.
3	B	<b>Power Up Routine</b> Verify the following steps as directed by the manufacturer's "Instruction Manual":	

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4	B	a. Power up unit.	The line cord is damaged or missing. The voltage selector will not change, is damaged, or is missing fuses. The unit does not power on or characters do not appear in display.
		<b>NOTE: If the power has been disconnected for less than 30 minutes, the analyzer will retain all previously selected data settings. The instrument will standardize and display "ANALYZE BLOOD?"—Refer to menu routing map in the manufacturer's literature.</b>	
		b. Select "Language."	Unable to select language.
		c. Set "Date and Time."	Unable to set time and date.
		d. Select "Analysis."	Unable to select choice of measurement channels.
		e. Perform "Correlation Adjust."	Unable to change the correlation.
		f. Set "Reference Ranges."	Unable to set reference ranges.
		g. Set "QC Prompts."	Unable to set QC prompts.
		h. Set "QC Limits."	Unable to set QC limits.
		i. Set the "Standardization Mode."	Unable to set the calibration mode.
4	B	j. Set the "Print Option."	Unable to set the print mode.
		k. Set the "Security Option."	Unable to set the security options.
		l. Perform the "Conditioning Routine."	Unable to condition analyzer.
		<b>Operating Instructions</b> Conduct the operation of the unit as directed by the "Instruction Manual."	Any of the operations cannot be performed.

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5	B	<p>a. Verify proper menu routing as directed in the instruction manual.</p> <p>b. Measure a blood, serum or plasma sample as directed in the instruction manual.</p> <p>c. Measure a urine sample as directed in the instruction manual.</p> <p>d. Measure or flush a sample containing a bubble as directed in the instruction manual.</p> <p>e. Manually standardize the unit as directed in the instruction manual.</p> <p>f. Recall the last result as directed in the instruction manual.</p> <p>g. Measure a QC sample as directed in the instruction manual.</p> <p>h. Shutdown the unit as directed in the instruction manual.</p> <p><b>Precautions and Hazards</b></p> <p>a. Verify the operating precautions as directed by the manufacturer's instruction manual.</p> <p>b. Avoid the hazards cited in the manufacturer's instruction manual.</p> <p>c. Conduct the sample handling and collection procedures as directed in the instruction manual.</p>	Unable to select all modes of operation.
6	B, Q	<p><b>Maintenance</b></p> <p>a. Conduct the "Check/Service Menu Map" procedure as directed by the manufacturer's instruction manual.</p> <p>b. Conduct general maintenance and cleaning as directed by the manufacturer's instruction manual.</p> <p>c. Conduct scheduled maintenance as directed by the manufacturer's instruction manual.</p>	Unable to access a mode or verify an operation.
	B	(1) Daily Maintenance:	

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	Q	<p>(a) Check levels of calibrants and replace with new "Cal-Pak" if necessary. "Cal-Pak" will probably need replacing once a week.</p> <p>(b) Check that the probe is straight and centered over the weir when in the closed position.</p> <p>(c) Wipe the sample area, calibrant compartment and the external surfaces with clean tissues moistened with 2% activated glutaraldehyde solution.</p> <p>(d) Clean the weir cover with clean tissues moistened with 2% activated glutaraldehyde solution.</p> <p>(2) Three monthly (quarterly) maintenance:</p> <p>(a) Disinfect the unit as directed by the manufacturer's instruction manual.</p> <p>(b) Replace the weir cover, if necessary, as directed by the manufacturer's instruction</p> <p>(c) Replace the pump tube cassette, and clean and lubricate the roller assembly as directed by the manufacturer's instruction manual.</p> <p>(d) Replace the reference electrode cassette (not the inner electrode) as directed by the manufacturer's instruction manual.</p> <p>(e) Check Na<sup>+</sup> and K<sup>+</sup> electrode fill solution and refill the electrodes, if necessary, as directed by the manufacturer's instruction manual.</p>	<p>Unable to replace calibrants, damaged or missing components.</p> <p>Unable to realign or replace.</p>